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The International Space Environment Service

JANUARY 2004

Julian Day	Date of Issue	Date of Obs	Wolf No.	10-cm Solar Flux	A-index	Rgn No.	Location Lat	Location Lon	Flares Opt	Flares M	Flares X	Date of Fcst	Region Fcst(1)	Geoadvice(1)
001	01	31	25	106	17	10528	N09	W93	0	1	0	01	Q	SOL: Quiet
						10534	S05	E40	0	0	0	01	Q	MAG: Active
									0	0	0	01		PRO: Quiet
002	02	01	47	116	29	10534	S06	E28	1	0	0	02	Q	SOL: Eruptive
						10535	S19	W38	0	0	0	02	Q	MAG: Active
						10536	S11	E73	1	0	0	02	E	PRO: Quiet
003	03	02	51	117	11	10534	S06	E15	1	0	0	03	E	SOL: Eruptive
						10535	S19	W51	0	0	0	03	Q	MAG: Active
						10536	S11	E63	0	0	0	03	E	PRO: Quiet
004	04	03	65	116	25	10534	S05	E02	0	0	0	04	Q	SOL: Eruptive
						10535	S18	W64	0	0	0	04	Q	MAG: Active
						10536	S12	E51	2	0	0	04	E	PRO: Quiet
005	05	04	80	119	21	10534	S05	W13	0	0	0	05	Q	SOL: Eruptive
						10535	S21	W76	0	0	0	05	Q	MAG: Active
						10536	S10	E38	1	0	0	05	E	PRO: Quiet
006	06	05	80	123	19	10534	S06	W23	0	0	0	06	Q	SOL: Eruptive
						10535	S22	W86	0	0	0	06	Q	MAG: Active
						10536	S11	E25	0	0	0	06	E	PRO: Quiet
007	07	06	78	117	19	10534	S07	W40	0	0	0	07	Q	SOL: Eruptive
						10536	S10	E12	1	0	0	07	E	MAG: Active
						10537	N04	E76	0	1	0	07	E	PRO: Quiet
008	08	07	93	119	38	10536	S12	W04	0	0	0	08	E	SOL: Active
						10537	N05	E64	3	2	0	08	E	MAG: Active
						10538	N07	E04	0	0	0	08	Q	PRO: Quiet
						10539	N09	E29	0	0	0	08	Q	
009	09	08	118	120	6	10536	S11	W16	0	0	0	09	E	SOL: Active
						10537	N04	E50	4	1	0	09	E	MAG: Active
						10538	N05	W04	0	0	0	09	Q	PRO: Quiet
						10539	N09	E15	0	0	0	09	Q	
010	10	09	88	118	21	10536	S12	W28	1	0	0	10	E	SOL: Active
						10537	N05	E37	4	2	0	10	E	MAG: Quiet
									0	0	0	10		PRO: Quiet
011	11	10	66	119	24	10536	S12	W41	4	0	0	11	E	SOL: Active
						10537	N05	E24	1	0	0	11	E	MAG: Active
									0	0	0	11		PRO: Quiet
012	12	11	53	119	17	10536	S12	W54	3	0	0	12	E	SOL: Active
						10537	N05	E11	0	0	0	12	E	MAG: Active
									0	0	0	12		PRO: Quiet
013	13	12	77	118	7	10536	S12	W68	3	0	0	13	E	SOL: Eruptive
						10537	N05	W03	0	0	0	13	E	MAG: Quiet
						10540	S11	E76	0	0	0	13	Q	PRO: Quiet
014	14	13	53	118	22	10536	S12	W81	1	0	0	14	E	SOL: Active
						10537	N05	W16	1	0	0	14	E	MAG: Active
						10540	S11	E68	0	0	0	14	E	PRO: Quiet
015	15	14	58	121	10	10537	N04	W29	0	0	0	15	Q	SOL: Eruptive
						10540	S13	E59	0	0	0	15	E	MAG: Quiet
									0	0	0	15		PRO: Quiet
016	16	15	57	119	14	10537	N04	W43	0	0	0	16	Q	SOL: Eruptive
						10540	S13	E43	1	0	0	16	Q	MAG: Quiet
						10541	S09	W03	0	0	0	16	Q	PRO: Quiet
017	17	16	68	120	20	10537	N04	W57	1	0	0	17	Q	SOL: Eruptive

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						10540	S13	E28	0	0	0	17	Q	MAG: Active
						10541	S09	W18	0	0	0	17	Q	PRO: Quiet
						10542	N11	E54	0	0	0	17	Q	
018	18	17	56	123	15	10537	N04	W70	1	0	0	18	Q	SOL: Eruptive
						10540	S14	E15	3	1	0	18	E	MAG: Active
						10541	S09	W31	0	0	0	18	Q	PRO: Quiet
						10542	N11	E43	0	0	0	18	Q	
019	19	18	72	120	15	10537	N04	W83	1	0	0	19	Q	SOL: Eruptive
						10540	S14	E02	2	1	0	19	E	MAG: Active
						10541	S10	W44	0	0	0	19	Q	PRO: Quiet
020	20	19	87	135	16	10540	S14	W10	3	2	0	20	E	SOL: Eruptive
						10541	S09	W58	0	0	0	20	Q	MAG: Active
						10542	N08	E15	0	0	0	20	Q	PRO: Quiet
						10543	S18	E05	0	0	0	20	Q	
021	21	20	94	129	17	10540	S14	W22	1	1	0	21	E	SOL: Eruptive
						10542	N10	W03	0	0	0	21	Q	MAG: Active
						10543	S17	W08	0	0	0	21	Q	PRO: Quiet
						10544	N08	E09	0	0	0	21	Q	
022	22	21	104	130	11	10540	S14	W35	0	0	0	22	Q	SOL: Eruptive
						10542	N10	W16	0	0	0	22	E	MAG: Minor
						10543	S16	W21	1	0	0	22	Q	PRO: Quiet
						10544	N08	W04	0	0	0	22	Q	
023	23	22	76	122	46	10540	S14	W48	0	0	0	23	Q	SOL: Eruptive
						10542	N10	W29	0	0	0	23	Q	MAG: Minor
						10543	S16	W34	0	0	0	23	Q	PRO: Quiet
						10544	N08	W17	0	0	0	23	E	
024	24	23	62	115	30	10540	S14	W61	0	0	0	24	Q	SOL: Eruptive
						10542	N10	W42	0	0	0	24	Q	MAG: Active
						10543	S16	W47	0	0	0	24	Q	PRO: Quiet
						10544	N08	W30	0	0	0	24	Q	
025	25	24	47	108	18	10540	S14	W81	0	0	0	25	Q	SOL: Eruptive
						10542	N10	W61	0	0	0	25	Q	MAG: Active
						10543	S16	W60	0	0	0	25	Q	PRO: Quiet
						10544	N08	W44	0	0	0	25	Q	
026	26	25	48	102	23	10540	S15	W91	0	0	0	26	Q	SOL: Quiet
						10542	N09	W71	1	0	0	26	Q	MAG: Quiet
						10543	S16	W72	1	0	0	26	Q	PRO: Quiet
						10544	N08	W57	0	0	0	26	Q	
027	27	26	38	98	17	10542	N06	W82	0	0	0	27	Q	SOL: Quiet
						10543	S17	W89	0	0	0	27	Q	MAG: Quiet
						10544	N03	W76	0	0	0	27	Q	PRO: Quiet
028	28	27	0	94	14				0	0	0	28		SOL: Quiet
									0	0	0	28		MAG: Quiet
									0	0	0	28		PRO: Quiet
029	29	28	0	89	23				0	0	0	29		SOL: Quiet
									0	0	0	29		MAG: Quiet
									0	0	0	29		PRO: Quiet
030	30	29	25	87	8	10545	S20	W19	0	0	0	30	Q	SOL: Quiet
						10546	S12	E68	0	0	0	30	Q	MAG: Quiet
									0	0	0	30		PRO: Quiet
031	31	30	42	93	18	10545	S20	W32	0	0	0	31	Q	SOL: Eruptive
						10546	S11	E55	0	0	0	31	Q	MAG: Active
						10547	S09	E14	0	0	0	31	Q	PRO: Quiet

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(1) Region Forecast and Flare (SOL) Advice
- Q = Quiet (<50% probability of C-class flares)
- E = Eruptive (C-class flares expected, probability >=50%)
- A = Active (M-class flares expected, probability >=50%)
- M = Major (X-class flares expected, probability >=50%)
- P = Proton (Proton flares expected, probability >=50%)
- W = Warning (activity levels are expected to increase, but no numerical forecast given)
- / = No forecast available

Magnetic (MAG) Geoadvice

'Quiet'		
'Active'	conditions expected	(A>= 20 or K =4)
'Minor'	storm expected	(A>= 30 or K =5)
'Major'	storm expected	(A>= 50 or K>=6)
'Severe'	storm expected	(A>=100 or K>=7)
'IP'	magstorm in progress	(A>= 30 or K>=4)
'Warning'	(activity levels are expected to increase, but no numerical forecast given)	
'/'	no forecast available	

Proton (PRO) Geoadvice

'Quiet'		
'Proton'	event expected	(10pfu at > 10 MeV)
'Major'	proton event expected	(100pfu at >100 MeV)
'IP'	proton event in progress	(>10 MeV)
'Warning'	(activity levels are expected to increase, but no numerical forecast given)	
'/'	no forecast available	

STRATWARM ALERTS

STRATALERT BERLIN 01 JANUARY 2004 1400 UTC STRATALERT EXISTS.
A NEW WARMING PULSE LEADS TO A STRONG INTENSIFICATION OF THE WARM REGION OVER WESTERN ASIA/EASTERN EUROPE. DEVELOPMENT INTO A MAJOR WARMING POSSIBLE.

STRATALERT BERLIN 02 JANUARY 2004 1400 UTC STRATALERT EXISTS.
A STRONG WARMING OVER ASIA/EASTERN EUROPE FURTHER INTENSIFIES AND IS FORECAST TO DEVELOP INTO A MAJOR WARMING.

STRATALERT BERLIN 03 JANUARY 2004 1400 UTC STRATALERT EXISTS.
THE STRONG ASIAN/EUROPEAN WARMING IS INTENSIFYING AND IS FORECAST TO DEVELOP INTO A MAJOR WARMING IN THE NEXT THREE DAYS.

STRATALERT BERLIN 04 JANUARY 2004 1400 UTC STRATALERT EXISTS.
THE WARMING OVER SIBERIA IS FORECAST TO DEVELOP INTO A MAJOR WARMING WITHIN THE NEXT THREE DAYS.

STRATALERT BERLIN 05 JANUARY 2004 1400 UT: STRATALERT EXISTS.
MAJOR WARMING IN PROGRESS.

STRATALERT BERLIN 06 JANUARY 2004 1400 UTC STRATALERT EXISTS.
MAJOR WARMING CONTINUES.

STRATALERT BERLIN 07 JANUARY 2004 1400 UTC STRATALERT EXISTS.
MAJOR WARMING CONTINUES.

STRATALERT BERLIN 08 JANUARY 2004 1400 UTC STRATALERT EXISTS.
MAJOR WARMING CONTINUES.

STRATALERT BERLIN 09 JANUARY 2004 1400 UTC STRATALERT EXISTS.
MAJOR WARMING CONTINUES.

STRATALERT BERLIN 10 JANUARY 2004 1400 UTC STRATALERT EXISTS.
MAJOR WARMING CONTINUES, WEAKENING.

STRATALERT BERLIN 11 JANUARY 2004 1400 UTC STRATALERT EXISTS.
MAJOR WARMING CONTINUING, BUT WEAKENING.

STRATALERT BERLIN 12 JANUARY 2004 1400 UTC STRATALERT EXISTS.

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MAJOR WARMING LASTS SINCE A WEEK NOW.

STRATALERT BERLIN 13 JANUARY 2004 1400 UTC STRATALERT EXISTS.
MAJOR WARMING LASTS OVER A WEEK NOW.

STRATALERT BERLIN 14 JANUARY 2004 1400 UTC STRATALERT EXISTS.
MAJOR WARMING LASTS OVER A WEEK NOW.

STRATALERT BERLIN 15 JANUARY 2004 1400 UTC STRATALERT EXISTS.
MAJOR WARMING LASTS OVER A WEAK, BUT WEAKENING.

STRATALERT BERLIN 16 JANUARY 2004 1400 UTC STRATALERT EXISTS.
SLOW RETURN TO NORMAL WINTER CONDITIONS, BUT STILL DISTURBED TEMPERATURE DISTRIBUTION IN THE LOWER STRATOSPHERE AFTER THE MAJOR WARMING.

STRATALERT BERLIN 17 JANUARY 2004 1400 UTC STRATALERT EXISTS.
SLOW RETURN TO NORMAL WINTER CONDITIONS, BUT STILL DISTURBED TEMPERATURE DISTRIBUTION IN THE LOWER STRATOSPHERE AFTER THE MAJOR WARMING.

STRATALERT BERLIN 18 JANUARY 2004 1400 UTC STRATALERT EXISTS.
AFTER THE MAJOR WARMING SLOW RETURN TO NORMAL WINTER CONDITIONS, BUT STILL DISTURBED TEMPERATURE DISTRIBUTION IN THE LOWER STRATOSPHERE.

STRATALERT BERLIN 19 JANUARY 2004 1400 UTC STRATALERT EXISTS.
WARM AIR COVERS GREENLAND/NORTHEASTERN ASIA IN THE LOWER STRATOSPHERE, LEADING TO A REVERSED TEMPERATURE GRADIENT BETWEEN 60N AND THE POLE FROM 100 TO 20 HPA.

STRATALERT BERLIN 20 JANUARY 2004 1400 UTC STRATALERT EXISTS.
WARM AIR COVERS GREENLAND/EASTERN SIBERIA IN THE LOWER STRATOSPHERE, LEADING TO A REVERSED TEMPERATURE GRADIENT BETWEEN 60N AND THE POLE FROM 100 TO 20 HPA.

STRATALERT BERLIN 21 JANUARY 2004 1400 UTC STRATALERT EXISTS.
DISTURBED CONDITIONS PREVAIL IN THE LOWER STRATOSPHERE WITH A REVERSED TEMPERATURE GRADIENT BETWEEN 60N AND THE POLE. IN THE UPPER STRATOSPHERE CONDITIONS RETURNED TO NORMAL.

STRATALERT BERLIN 22 JANUARY 2004 1400 UTC STRATALERT EXISTS.
WARM AIR COVERS EASTERN SIBERIA/BAFFIN BAY IN THE LOWER STRATOSPHERE, LEADING TO A REVERSED TEMPERATURE GRADIENT BETWEEN 60N AND THE POLE FROM 100 TO 20 HPA.

STRATALERT BERLIN 23 JANUARY 2004 1400 UTC STRATALERT EXISTS.
DISTURBED TEMPERATURE PATTERN IN THE LOWER, COOLING IN THE UPPER-STRATOSPHERE.

STRATALERT BERLIN 24 JANUARY 2004 1400 UTC STRATALERT EXISTS.
DISTURBED TEMPERATURE AND CIRCULATION PATTERN IN THE LOWER STRATOSPHERE. COOLING IN THE UPPER STRATOSPHERE.

STRATALERT BERLIN 25 JANUARY 2004 1400 UTC STRATALERT EXISTS.
DISTURBED TEMPERATURE AND CIRCULATION PATTERN IN THE LOWER STRATOSPHERE.

STRATALERT BERLIN 26 JANUARY 2004 1400 UTC STRATALERT EXISTS.
THE LOWER STRATOSPHERE SHOWS A HIGHLY DISTURBED TEMPERATURE AND CIRCULATION PATTERN AS A CONSEQUENCE OF THE MAJOR WARMING, WHILE A NEW WARMING PULSE DEVELOPS OVER CENTRAL SIBERIA AT THE UPPER LEVELS.

STRATALERT BERLIN 27 JANUARY 2004 1400 UTC STRATALERT EXISTS.
THE LOWER STRATOSPHERE SHOWS A HIGHLY DISTURBED TEMPERATURE AND CIRCULATION PATTERN AS A CONSEQUENCE OF THE MAJOR WARMING.

STRATALERT BERLIN 28 JANUARY 2004 1400 UTC STRATALERT EXISTS.
THE LOWER AND MID-STRATOSPHERE SHOW A HIGHLY DISTURBED TEMPERATURE AND CIRCULATION PATTERN AS A CONSEQUENCE OF THE MAJOR WARMING.

STRATALERT BERLIN 29 JANUARY 2004 1400 UTC STRATALERT EXISTS.
DISTURBED TEMPERATURE AND CIRCULATION PATTERN IN THE LOWER STRATOSPHERE.

STRATALERT BERLIN 30 JANUARY 2004 1400 UTC STRATALERT EXISTS.
DISTURBED TEMPERATURE AND CIRCULATOIN PATTERN IN THE LOWER STRATOSPHERE.

STRATALERT BERLIN 31 JANUARY 2004 1400 UTC STRATALERT EXISTS.
CONTINUOUSLY DISTURBED TEMPERATURE AND CIRCULATION PATTERN IN THE LOWER STRATOSPHERE, UNUSUALLY COLD POLAR REGION IN THE UPPER STRATOSPHERE.